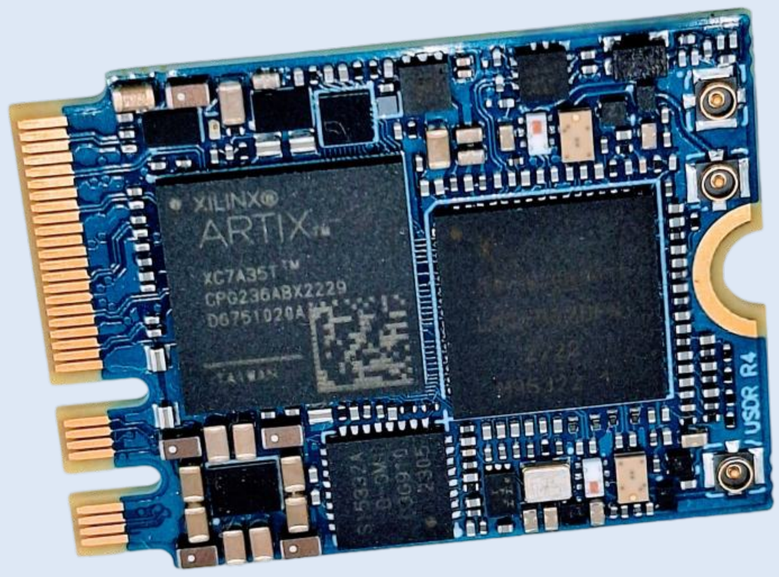
WVLT SDR

A tiny **M.2** single-side components SDR

u.SDR micro



A tiny M.2 single side components SDR is an M.2 embedded software-defined radio (SDR) card ready for integration into systems that support either M.2 or Mini PCIe (with adapter) form factors and features an RF tuning range of 250 MHz to 3.8 GHz with separate RX-only 1-250 Mhz band. Leveraging the applications of the web platform wsdr.io and different host devices (laptops, tablets, smartphones, embedded computers, etc.), you can immediately build an RF device for any kind of need and share or stream data worldwide

FPGA

AMD XILINX XC7A35T

POWER CONSUMPTION

2.1 W Typical
3.6 W Max

EXTENDED POWER SUPPLY RANGE

2.85 - 5.5 V

WEB UX

Web platform **wsdr.io** with ready to use apps (USB only)

HOST INTERFACE

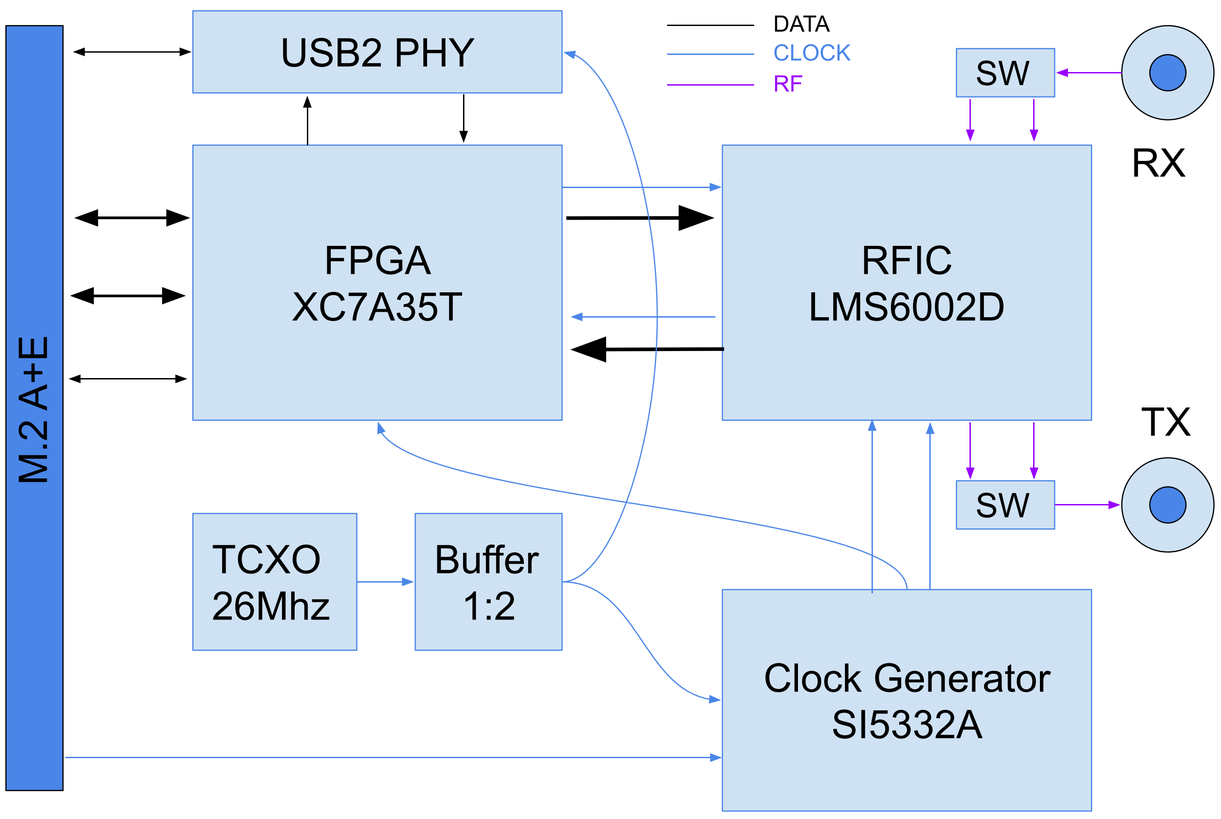
M.2 2230 A+E key (USB 2.0 & PCIe 2.0 x2)

ADAPTERS

Development board
Mini PCIe
M.2 B+M Key
USB

TEMPERATURE

0 - 85 C Standard range
-40 - 105 C On request



TARGET APPLICATIONS

CELLULAR COMMUNICATION

Establish dedicated wireless networks by implementing BTS, eNodeB, or gNodeB systems via open-source solutions like srsRAN or Amarisoft

EMBEDDED

Develop compact and high-performance frequency analysis devices

DATA LINK

Build a communication channel between points worldwide via a web platform

TEMPERATURE STABILITY

LMS6002D BiCMOS technology provides RF stability and predicted performance over a high range chip temperature (-50 C – 100 C).

LEGACY SOFTWARE

GNU Radio, srsRAN and many more through SoapySDR

RF SPECIFICATION

RFIC

LMS6002D
LTC5562

FREQUENCY RANGE

250 MHz to 3.8 GHz
1 MHz - 250 MHz (RX only)

SAMPLE RATE

0.1MSps - 65 MSps

CHANNEL BANDWITH

0.5Mhz - 40 MHz

wavelet-lab.com
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